

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 16/518, 701 A  
Source: IFWP  
Date Processed by STIC: 12/20/2005

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/518,701A

TIME: 10:30:24

Input Set : A:\UPN0030-100.txt

Output Set: N:\CRF4\12202005\J518701A.raw

3 <110> APPLICANT: Levinson, Arnold I.  
 4 Weiner, David B.  
 5 Otero, Miguel  
 6 Calarota, Sandra  
 8 <120> TITLE OF INVENTION: Vaccines for Suppressing IgE Mediated Allergic Disease and  
 9 Methods for Using the Same  
 11 <130> FILE REFERENCE: UPN0030.100  
 13 <140> CURRENT APPLICATION NUMBER: US 10/518,701A  
 C--> 14 <141> CURRENT FILING DATE: 2005-09-01  
 16 <150> PRIOR APPLICATION NUMBER: PCT/US03/19383  
 17 <151> PRIOR FILING DATE: 2003-06-20  
 19 <150> PRIOR APPLICATION NUMBER: US 60/390,304  
 20 <151> PRIOR FILING DATE: 2002-06-20  
 22 <160> NUMBER OF SEQ ID NOS: 13  
 24 <170> SOFTWARE: PatentIn version 3.2  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 88  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Artificial Sequence  
 31 <220> FEATURE:  
 32 <223> OTHER INFORMATION: Oligonucleotide  
 34 <400> SEQUENCE: 1  
 35 cccaagctta tggactggac ctggatcctc ttcttggtgg cagcagccac gcgagtccac 60  
 37 tcccatgggc tggctggcgg ctccgcgc 88  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 30  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial Sequence  
 45 <220> FEATURE:  
 46 <223> OTHER INFORMATION: Oligonucleotide  
 48 <400> SEQUENCE: 2  
 49 ccgctcgagc gtggggctgg aggacgttg 30  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 87  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Oligonucleotide  
 60 <400> SEQUENCE: 3  
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 63 ataaagatag atttttacaa accatgg 87  
 66 <210> SEQ ID NO: 4  
 67 <211> LENGTH: 88

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68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Oligonucleotide
74 <400> SEQUENCE: 4
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77 gaatcagtc ttaaataatt tggatcgg      88
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80 <211> LENGTH: 630
81 <212> TYPE: DNA
82 <213> ORGANISM: Homo sapiens
85 <220> FEATURE:
86 <221> NAME/KEY: CDS
87 <222> LOCATION: (1)..(627)
89 <220> FEATURE:
90 <221> NAME/KEY: sig_peptide
91 <222> LOCATION: (1)..(54)
93 <220> FEATURE:
94 <221> NAME/KEY: misc_signal
95 <222> LOCATION: (418)..(441)
96 <223> OTHER INFORMATION: protease cleavage signal
98 <220> FEATURE:
99 <221> NAME/KEY: misc_signal
100 <222> LOCATION: (523)..(546)
101 <223> OTHER INFORMATION: protease cleavage signal
103 <400> SEQUENCE: 5
104 atg gac tgg acc tgg atc ctc ttc ttg gtg gca gca gcc acg cga gtc      48
105 Met Asp Trp Thr Trp Ile Leu Phe Leu Val Ala Ala Thr Arg Val
106 1          5          10          15
108 cac tcc cat ggg ctg gct ggc ggc tcc gcg cag tcc cag agg gcc ccg      96
109 His Ser His Gly Leu Ala Gly Gly Ser Ala Gln Ser Gln Arg Ala Pro
110          20          25          30
112 gat agg gtg ctc tgc cac tcc gga cag cag cag gga ctg ccg aga gca      144
113 Asp Arg Val Leu Cys His Ser Gly Gln Gln Gln Gly Leu Pro Arg Ala
114          35          40          45
116 gca gga ggc tct gtc ccc cac ccc cgc tgc cac tgt gga gcc ggg agg      192
117 Ala Gly Gly Ser Val Pro His Pro Arg Cys His Cys Gly Ala Gly Arg
118          50          55          60
120 gct gac tgg cca ggt ccc cca gag ctg gac gtg tgc gtg gag gag gcc      240
121 Ala Asp Trp Pro Gly Pro Pro Glu Leu Asp Val Cys Val Glu Glu Ala
122 65          70          75          80
124 gag ggc gag gcg ccg tgg acg tgg acc ggc ctc tgc atc ttc gcc gca      288
125 Glu Gly Glu Ala Pro Trp Thr Trp Thr Gly Leu Cys Ile Phe Ala Ala
126          85          90          95
128 ctc ttc ctg ctc agc gtg agc tac agc gcc gcc ctc acg ctc ctc atg      336
129 Leu Phe Leu Leu Ser Val Ser Tyr Ser Ala Ala Leu Thr Leu Leu Met
130          100          105          110
132 gtg cag cgg ttc ctc tca gcc acg cgg cag ggg agg ccc cag acc tcc      384
133 Val Gln Arg Phe Leu Ser Ala Thr Arg Gln Gly Arg Pro Gln Thr Ser

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134          115          120          125
136 ctc gac tac acc aac gtc ctc cag ccc cac gcc aga gaa aaa aga gct      432
137 Leu Asp Tyr Thr Asn Val Leu Gln Pro His Ala Arg Glu Lys Arg Ala
138          130          135          140
140 gtt gtt ggt tac gat cca aat tat tta agg act gat tct gat aaa gat      480
141 Val Val Gly Tyr Asp Pro Asn Tyr Leu Arg Thr Asp Ser Asp Lys Asp
142 145          150          155          160
144 aga ttt tta caa acc atg gta aaa ctg ttt aac aga att aag aga gaa      528
145 Arg Phe Leu Gln Thr Met Val Lys Leu Phe Asn Arg Ile Lys Arg Glu
146          165          170          175
148 aaa aga gct gtt gtt ggt ttt aat aat ttt acc gtt agc ttt tgg ttg      576
149 Lys Arg Ala Val Val Gly Phe Asn Asn Phe Thr Val Ser Phe Trp Leu
150          180          185          190
152 agg gtt cct aaa gta tct gct agt cat tta gaa cat cat cat cat cat      624
153 Arg Val Pro Lys Val Ser Ala Ser His Leu Glu His His His His His
154          195          200          205
156 cat tag      630
157 His
161 <210> SEQ ID NO: 6
162 <211> LENGTH: 209
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 6
168 Met Asp Trp Thr Trp Ile Leu Phe Leu Val Ala Ala Ala Thr Arg Val
169 1          5          10          15
172 His Ser His Gly Leu Ala Gly Gly Ser Ala Gln Ser Gln Arg Ala Pro
173          20          25          30
176 Asp Arg Val Leu Cys His Ser Gly Gln Gln Gln Gly Leu Pro Arg Ala
177          35          40          45
180 Ala Gly Gly Ser Val Pro His Pro Arg Cys His Cys Gly Ala Gly Arg
181          50          55          60
184 Ala Asp Trp Pro Gly Pro Pro Glu Leu Asp Val Cys Val Glu Glu Ala
185 65          70          75          80
188 Glu Gly Glu Ala Pro Trp Thr Trp Thr Gly Leu Cys Ile Phe Ala Ala
189          85          90          95
192 Leu Phe Leu Leu Ser Val Ser Tyr Ser Ala Ala Leu Thr Leu Leu Met
193          100          105          110
196 Val Gln Arg Phe Leu Ser Ala Thr Arg Gln Gly Arg Pro Gln Thr Ser
197          115          120          125
200 Leu Asp Tyr Thr Asn Val Leu Gln Pro His Ala Arg Glu Lys Arg Ala
201          130          135          140
204 Val Val Gly Tyr Asp Pro Asn Tyr Leu Arg Thr Asp Ser Asp Lys Asp
205 145          150          155          160
208 Arg Phe Leu Gln Thr Met Val Lys Leu Phe Asn Arg Ile Lys Arg Glu
209          165          170          175
212 Lys Arg Ala Val Val Gly Phe Asn Asn Phe Thr Val Ser Phe Trp Leu
213          180          185          190
216 Arg Val Pro Lys Val Ser Ala Ser His Leu Glu His His His His His
217          195          200          205

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220 His
222 <210> SEQ ID NO: 7
223 <211> LENGTH: 22
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Chemically synthesized peptide
230 <400> SEQUENCE: 7
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233 1          5          10          15
236 Gln Gln Gln Gly Leu Pro
237          20
240 <210> SEQ ID NO: 8
241 <211> LENGTH: 22
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Chemically synthesized peptide
248 <400> SEQUENCE: 8
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251 1          5          10          15
254 Ala Asp Trp Pro Gly Pro
255          20
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259 <211> LENGTH: 15
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Chemically synthesized peptide
266 <400> SEQUENCE: 9
268 Glu Leu Asp Val Cys Val Glu Glu Ala Glu Gly Glu Ala Pro Trp
269 1          5          10          15
272 <210> SEQ ID NO: 10
273 <211> LENGTH: 9
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Chemically synthesized peptide
280 <400> SEQUENCE: 10
282 Glu Ala Pro Trp Thr Trp Thr Gly Leu
283 1          5
286 <210> SEQ ID NO: 11
287 <211> LENGTH: 10
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Chemically synthesized peptide
294 <400> SEQUENCE: 11
296 Thr Gly Leu Cys Ile Phe Ala Ala Leu Phe

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303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Chemically synthesized peptide
308 <400> SEQUENCE: 12
310 Val Gln Arg Phe Leu Ser Ala Thr Arg Gln Gly Arg Pro Gln Thr Ser
311 1          5          10          15
314 Leu Asp Tyr Thr Asn Val Leu Gln Pro His Ala
315          20          25
318 <210> SEQ ID NO: 13
319 <211> LENGTH: 27
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Chemically synthesized peptide
326 <400> SEQUENCE: 13
328 Tyr Asp Pro Asn Tyr Leu Arg Thr Asp Ser Asp Lys Asp Arg Phe Leu
329 1          5          10          15
332 Gln Thr Met Val Lys Leu Phe Asn Arg Ile Lys
333          20          25

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**VERIFICATION SUMMARY**

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date